

# Inorganic Chemistry

including bioinorganic chemistry

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## FIGURE CAPTIONS

- Figure S1.** Circular dichroism of 10  $\mu\text{M}$   $\Delta$ -Rh (solid) and 10  $\mu\text{M}$   $\Lambda$ -Rh (dashed) in (a) the absence of  $[\text{poly}(\text{dA-dT})]_2$  and in (b) the presence of  $[\text{poly}(\text{dA-dT})]_2$  (0.25 mM bp). Spectra were recorded in a 5 mM sodium phosphate, 50 mM NaCl, pH 7.0 buffer. (c) Figure reproduced from reference 13 with permission.
- Figure S2.** Expanded TMe and H2',2" vs. aromatic region of the 2D-NOESY Contours in 90:10 H<sub>2</sub>O:D<sub>2</sub>O for (counterclockwise from top left) D1/D2 alone, Rh'+D1/D2, Ru+D1/D2, and Rh'+Ru+D1/D2. Solutions were 0.5 mM in DNA duplex, 0.45 mM in Rh' and 0.45 mM in Ru in 10 mM sodium phosphate, pH 7.0.
- Figure S3.** 2D-NOESY Contour in 90:10 H<sub>2</sub>O:D<sub>2</sub>O for D1/D2 alone. Solutions were 0.5 mM in DNA duplex in 10 mM sodium phosphate, pH 7.0.
- Figure S4.** 2D-NOESY Contour in 90:10 H<sub>2</sub>O:D<sub>2</sub>O for Rh'+D1/D2. Solutions were 0.5 mM in DNA duplex and 0.45 mM in Rh', 10 mM sodium phosphate, pH 7.0.
- Figure S5.** 2D-NOESY Contour in 90:10 H<sub>2</sub>O:D<sub>2</sub>O for Ru+D1/D2. Solutions were 0.5 mM in DNA duplex, 0.45 mM in Ru, 10 mM sodium phosphate, pH 7.0.
- Figure S6.** 2D-NOESY Contour in 90:10 H<sub>2</sub>O:D<sub>2</sub>O for Rh'+Ru+D1/D2. Solutions were 0.5 mM in DNA duplex, 0.45 mM in Rh' and 0.45 mM in Ru in 10 mM sodium phosphate, pH 7.0.

Figure S1a

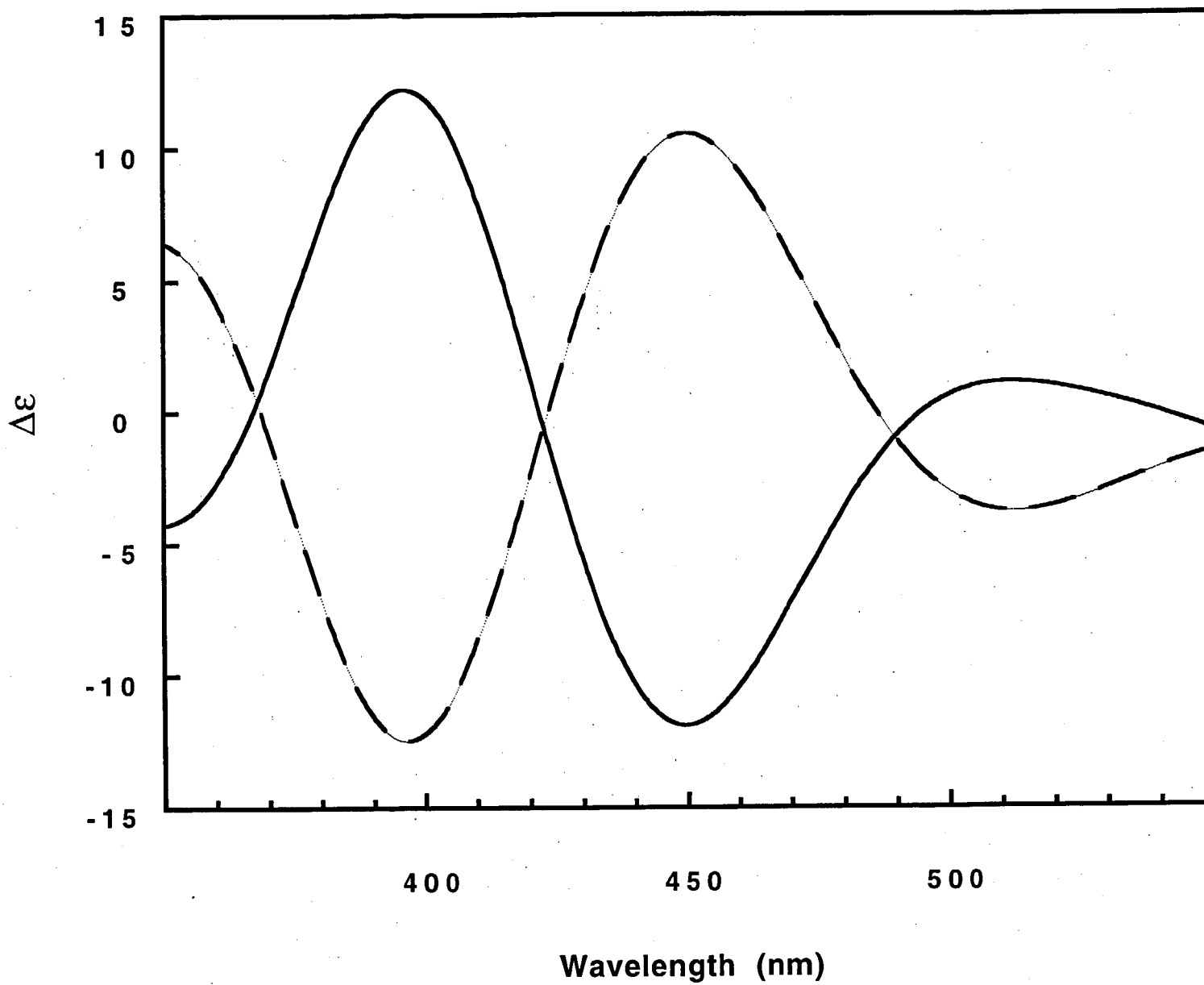


Figure S1b

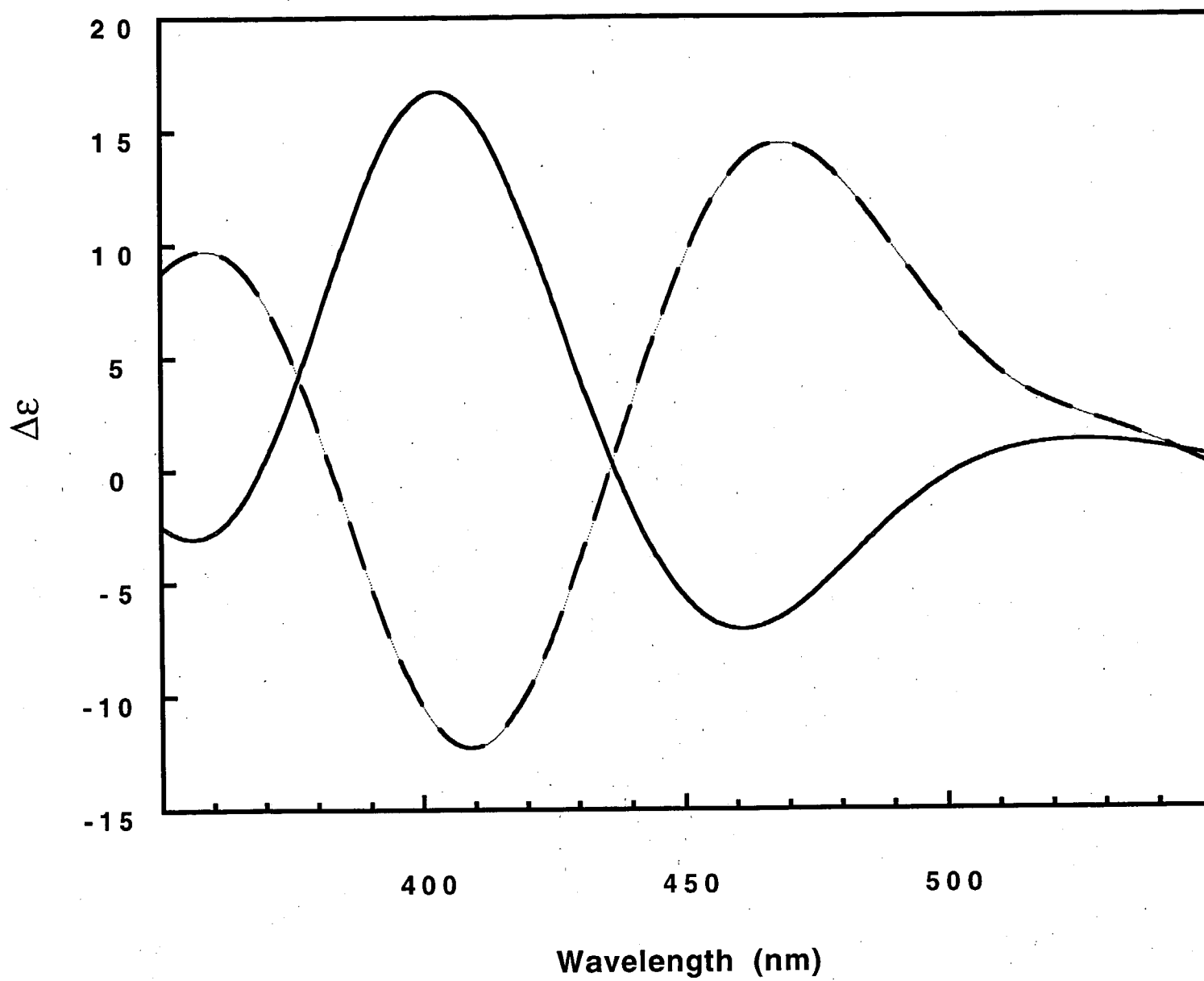
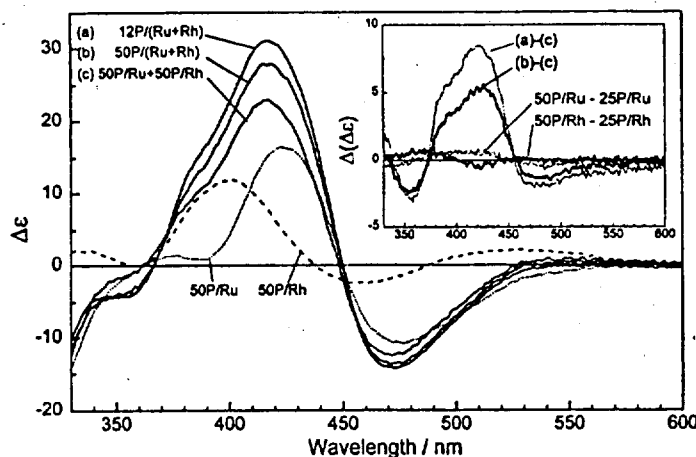


Figure S1c



**Figure 1.** Circular dichroism spectra showing short-distance interactions between  $\Delta$ -[Ru(phen)<sub>2</sub>dppz]<sup>2+</sup> (RU) and  $\Delta$ -[Rh(phi)<sub>2</sub>bipy]<sup>3+</sup> (RH) at low DNA-binding densities. (a) 12P/(Ru + Rh) (solid line): Spectrum of  $\Delta$ -RU (10  $\mu$ M) and  $\Delta$ -RH (10  $\mu$ M) in the presence of [poly(dA-dT)]<sub>2</sub> (AT, 120  $\mu$ M nucleotides). (b) 50P/(Ru + Rh) (solid line): Spectrum of  $\Delta$ -RU (10  $\mu$ M) and  $\Delta$ -RH (10  $\mu$ M) in the presence of AT (500  $\mu$ M nucleotides). 50P/Ru (dotted line): Spectrum of  $\Delta$ -RU (10  $\mu$ M) in the presence of AT (500  $\mu$ M nucleotides). 50P/Rh (dashed line): Spectrum of  $\Delta$ -RH (10  $\mu$ M) in the presence of AT (500  $\mu$ M nucleotides). (c) 50P/Ru + 50P/Rh (solid line): Sum of the spectra 50P/Ru and 50P/Rh. Inset shows the difference spectra a-c (dotted line) and b-c (solid line) and the difference spectrum of  $\Delta$ -RU (10  $\mu$ M) in the presence of different concentrations of AT (500 and 250  $\mu$ M, dotted line) and the difference spectrum of  $\Delta$ -RH (10  $\mu$ M) under the same conditions (solid line). The circular dichroism has been normalized to molar differential absorptivity ( $\Delta\epsilon$ ).

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Figure S2.

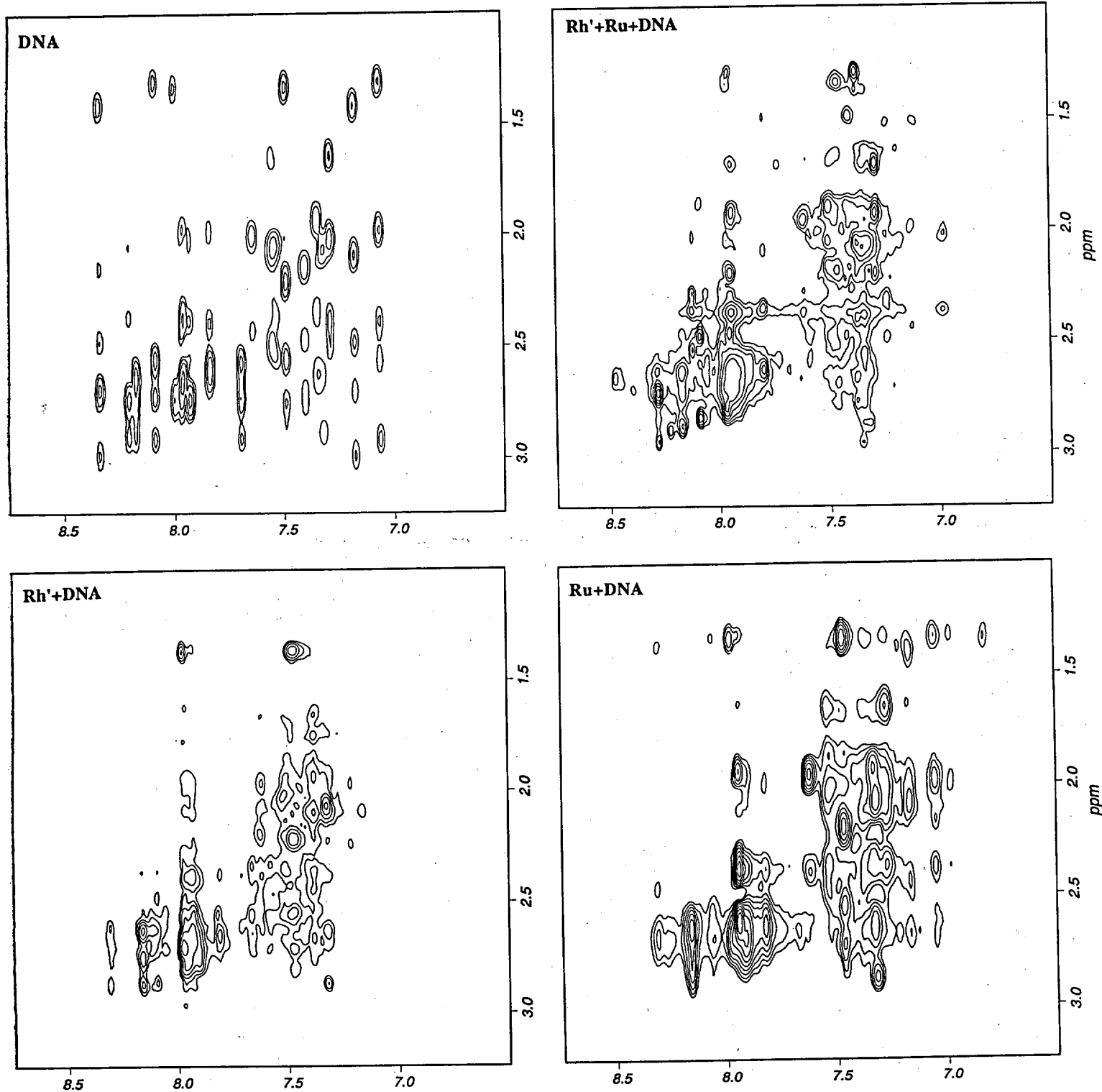


Figure S3.

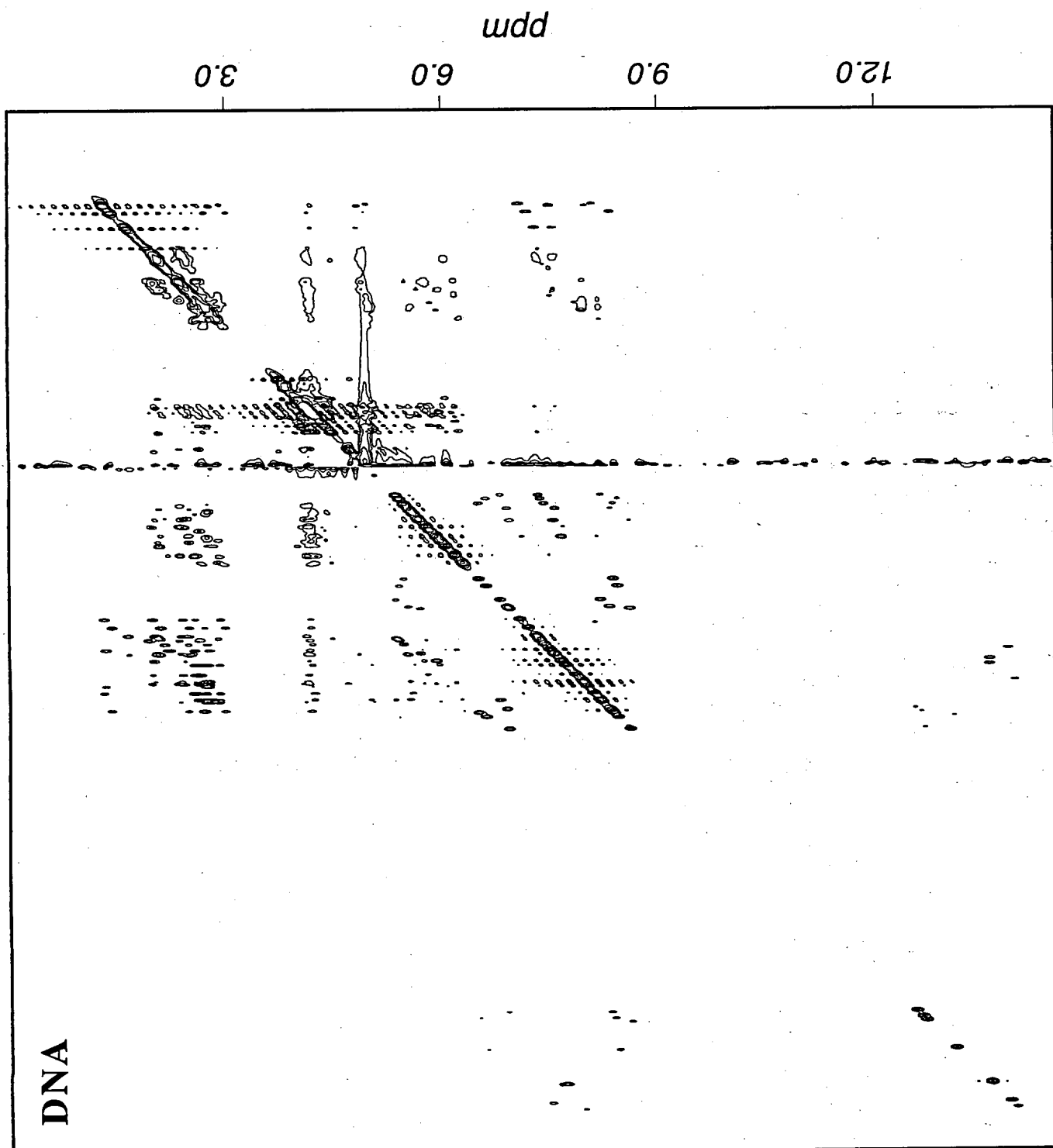


Figure S4.

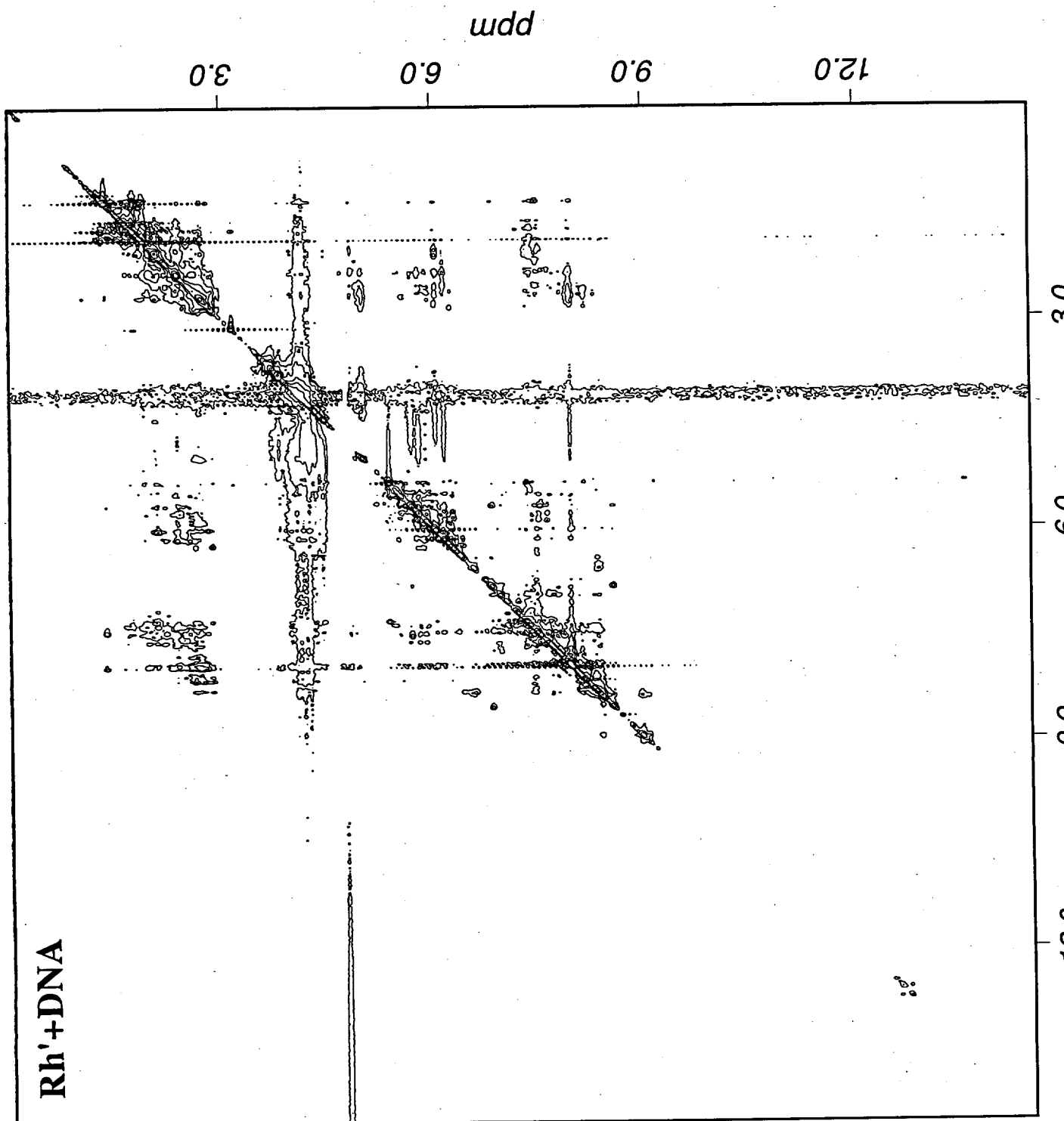




Figure S5.

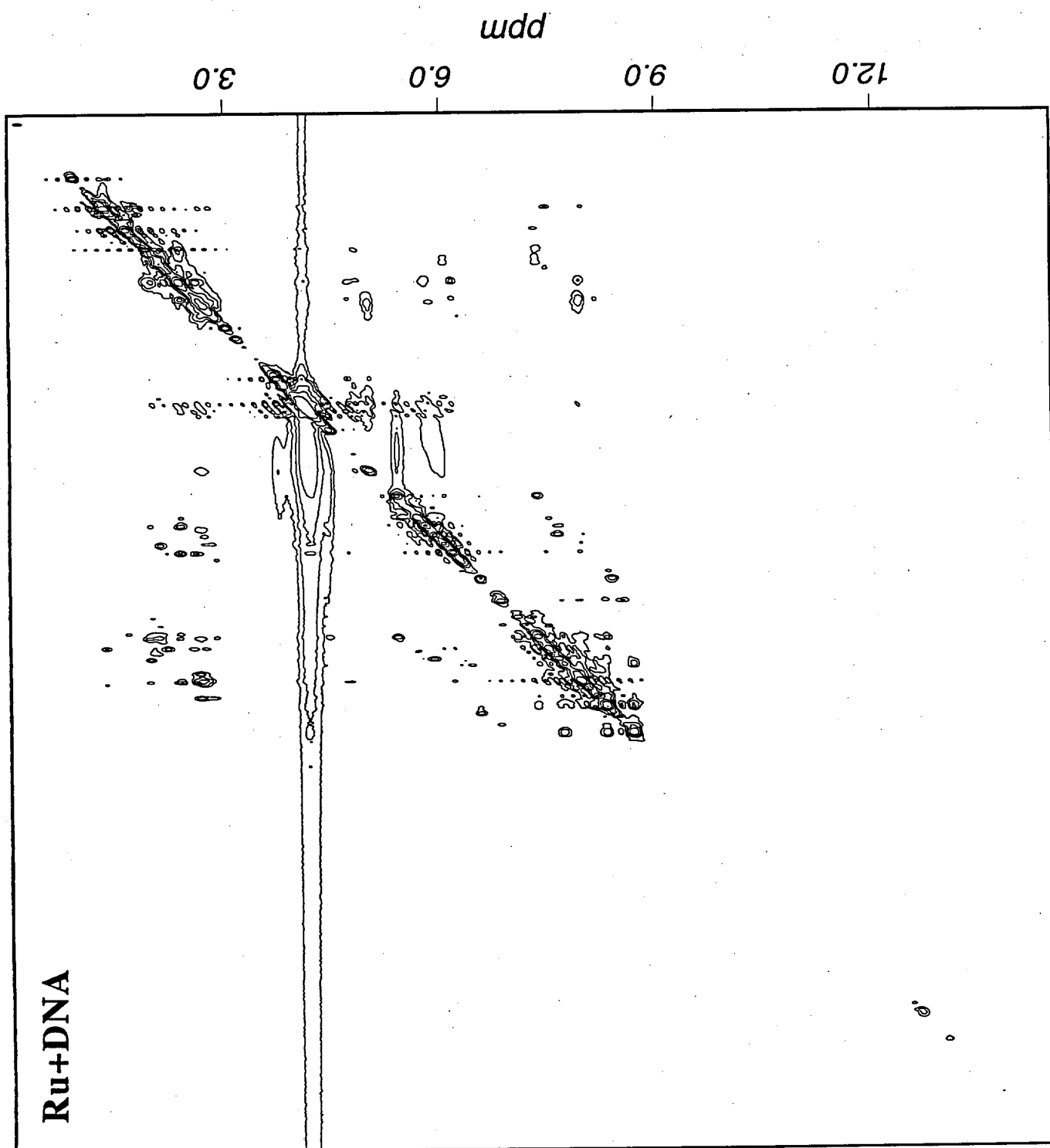


Figure S6.

